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(54) Title: **DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH MOSAIC SERINE PROTEASE (MSP)**

(57) Abstract: The invention provides a human MSP which is associated with the cardiovascular diseases, endocrinological diseases, metabolic diseases, cancer, inflammation, gastroenterological diseases, hematological diseases, respiratory diseases, neurological diseases, urological diseases and reproduction disorders. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular diseases, endocrinological diseases, metabolic diseases, cancer, inflammation, gastroenterological diseases, hematological diseases, respiratory diseases, neurological diseases, urological diseases and reproduction disorders. The invention also features compounds which bind to and/or activate or inhibit the activity of MSP as well as pharmaceutical compositions comprising such compounds.

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